

PATENTS RECORDATION COVER SHEET

To the Assistant Commissioner of Patents and Trademarks:	Please record the attached original document or copy thereof.			
Name of conveying party(ies):	2. Name and Address of receiving party(ies):			
Kiyonori OYU Atsushi OGISHIMA Hiroyuki UCHIYAMA	ELPIDA MEMORY, INC. 2-1, Yaesu 2-chome Chuo-ku, Tokyo, JAPAN			
Keizo KAWAKITA Masahito SUZUKI	HITACHI ULSI SYSTEMS CO., LTD. 22-1, Josuihoncho 5-chome Kodaira-shi, Tokyo, JAPAN			
	HITACHI, LTD. 6, Kanda Surugadai 4-chome Chiyoda-ku, Tokyo, JAPAN			
Type of Entity: Individuals	Type of Entity: Corporations of Japan			
Additional names(s) of conveying party(ies) attached? No	Additional name(s) & address(es) attached? No			
3. Nature of Conveyance:				
Assignment				
Execution Date: July 27, 2004				
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution	tion date of the application is:			
A. Application No.(s)	B. Patent No.(s)			
10/626,095				
Additional numbers	attached? No			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of documents involved: 1			
OSTROLENK, FABER, GERB & SOFFEN, LLP	7. Total fee (37 CFR 3.41): \$ 40.00			
1180 Avenue of the Americas New York, New York 10036-8403	Enclosed as part of Check No. 17836			
New Tork, New Tork 10030-0403	In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.			
DO NOT USE	THIS SPACE			
To the best of my knowledge and belief, the foregoing copy is a true copy of the original document.	g information is true and correct and any attached			
MAX MOSKOWITZ	August 27, 2004			
Name of Person Signing Total number of pages including	Signature Date a cover sheet, attachments, and document: 6			

ASSIGNMENT OF AP	PLICATION	P/126-221	
Whereas, I/We, Kiyonori OYU	ofTokyo	, Japan ,here	after
referred to as applicant, have invented cert SEMICONDUCTOR MEMORY DEVICE A			
for which an application for a United St Application Number 10 / 626,095	tates Patent was filed on _7/24	/2003	
for which an application for a United St Hitachi, Ltd. Elpida Memory, Inc.	ates Patent was executed on of Tokyo, Jap of Tokyo, Japan	an	and
Hitachi III SI Systoms Co. Ltd.	T.1.		
"assignees" whose mailing addresses are	6, Kanda Surugadai 4- 2-1, Yaesu 2-chome, Chuo-l	herein refer chome, Chiyoda-ku, ku, Tokyo, Japan	red to Tokyo, _ and
22-1, Josuihoncho 5-chome, Kodaira-shi,			are
Now, therefore, in consideration of the acknowledged, and other good and valuabl assign and transfer unto said assignee the and the entire right, title and interest in ar	e consideration, I/We, the applic full and exclusive right to the sa	cant(s), by these presents aid invention in the United	do sell, I States
acknowledged, and other good and valuable assign and transfer unto said assignee the and the entire right, title and interest in an United States, I/We hereby authorize and resulting United States Patent to said assignee, of the use and behoof; and for the use and behoof said Patent may be granted, as fully and assignment and sale not been made.	sum of <u>one</u> dollars (\$_1 e consideration, I/We, the application of the sum of the sum of the sum of the company and all Patents which equest the Commissioner of Patente entire right, title, and interest of of his legal representatives, to the entirely as the same would the	cant(s), by these presents aid invention in the United in may be granted therefor and Trademarks to isset in and to the same, for the full end of the term for ave been held by me in the full end of the term for the full end of the term for any en	do sell, d States or in the sue said his sole or which
acknowledged, and other good and valuable assign and transfer unto said assignee the and the entire right, title and interest in are United States, I/We hereby authorize and result United States Patent to said assignee, of the use and behoof; and for the use and behoof said Patent may be granted, as fully and assignment and sale not been made. Executed this 27th day	sum of <u>one</u> dollars (\$_1 e consideration, I/We, the application of the sum of the sum of the sum of the company and all Patents which equest the Commissioner of Patente entire right, title, and interest of of his legal representatives, to the entirely as the same would the	cant(s), by these presents aid invention in the United in may be granted therefor and Trademarks to isset in and to the same, for the full end of the term for ave been held by me in the full end of the term for the full end of the term for any en	do sell, d States or in the sue said his sole or which
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ASSIGNMENT OF APPLICATION	Docket Number (Optional) P/126-221
referred to as applicant, have invented certain new and useful improvement	
SEMICONDUCTOR MEMORY DEVICE AND METHOD OF MANUFACT x for which an application for a United States Patent was filed on 7/21 Application Number 10 / 626,095 for which an application for a United States Patent was executed on Tokyo, Jaj Whereas, Elpida Memory, Inc. of Tokyo, Japan Hitachi ULSI Systems, Co., Ltd. of Tokyo, Japan 6, Kanda Surugadai 4-	4/2003 , and pan and herein referred to
"assignees" whose mailing addresses are 2-1, Yaesu 2-chome, Chuo-22-1, Josuihoncho 5-chome, Kodaira-shi, Tokyo, Japan, respectively, desirous of acquiring the entire right, title and interest in the same; Now, therefore, in consideration of the sum of one dollars (\$ acknowledged, and other good and valuable consideration, I/We, the application assign and transfer unto said assignee the full and exclusive right to the sand the entire right, title and interest in and to any and all Patents which United States, I/We hereby authorize and request the Commissioner of Pat United States Patent to said assignee, of the entire right, title, and interest use and behoof; and for the use and behoof of his legal representatives, to said Patent may be granted, as fully and entirely as the same would assignment and sale not been made.	are 1.00), the receipt whereof is cant(s), by these presents do sell, aid invention in the United States h may be granted therefor in the tent and Trademarks to issue said at in and to the same, for his sole the full end of the term for which
Executed this	ahito Suzuki re) Masahito SUZUKI
Note: Signatures of all the inventors or assignees of record of the entire interest or their repress forms if more than one signature is required, See below*.	imitsu Agatsuma. entative(s) are required. Submit multiple

ASSIGNMENT OF APPLICATION	Docket Number (Optional) P/126-221
Whereas, I/We,Keizo KAWAKITAofof	o, Japan,hereafter
referred to as applicant, have invented certain new and useful improvement SEMICONDUCTOR MEMORY DEVICE AND METHOD OF MANUFACT	URING THE SAME
x for which an application for a United States Patent was filed on Application Number 10 / 626,095	7/24/2003
for which an application for a United States Patent was executed on	
Hitachi, Ltd. of Tokyo, Japan Whereas, Elpida Memory, Inc. of Tokyo, Japan	
Hitachi ULSI Systems, Co., Ltd. of Tokyo, Japan 6, Kanda Surugadai 4- 2-1, Yaesu 2-chome, Chuo-	herein referred to -chome, Chiyoda-ku, Tokyo, Japan
22-1, Josuihoncho 5-chome, Kodaira-shi, Tokyo, Japan, respectively,	
desirous of acquiring the entire right, title and interest in the same;	are
Now, therefore, in consideration of the sum of <u>one</u> dollars (\$_acknowledged, and other good and valuable consideration, I/We, the applicassign and transfer unto said assignee the full and exclusive right to the said the entire right, title and interest in and to any and all Patents which United States, I/We hereby authorize and request the Commissioner of Pat United States Patent to said assignee, of the entire right, title, and interest use and behoof; and for the use and behoof of his legal representatives, to said Patent may be granted, as fully and entirely as the same would hassignment and sale not been made.	cant(s), by these presents do sell, aid invention in the United States In may be granted therefor in the ent and Trademarks to issue said t in and to the same, for his sole the full end of the term for which
Executed this 27th day of July	, 200 ¹ 4
at Tokyo, Japan	· · · · · · · · · · · · · · · · · · ·
<u>Keiz</u> (Signatur	
Witness: Takashi Zawa (F)	Was motor
Note: Signatures of all the inventors or assignees of record of the entire interest or their represe forms if more than one signature is required, See below*.	entative(s) are required. Submit multiple
* O Total offorms are submitted.	

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

				P/126-2	221
Whereas, I/We	e,Hiroyuki UCHIYAN	//Aof	Tokyo,	Japan	_,hereafter
referred to as	applicant, have invented co	ertain new and useful in	nprovements	in	
SEMICOND	OUCTOR MEMORY DEVICE	E AND METHOD OF	MANUFACTU	RING THE SAME	<u>; </u>
for which	an application for a United	States Patent was filed	ion 7/2	4/2003	
— Applicatio	n Number 10 / 626	,095			
-	an application for a United		outed an		
IOI WINCH	Hitophi Ttd		cuted on kyo, Japai		, and
Whereas,	Elpida Memory, Inc.	ofTo	kyo, Japan		and
Hitachi ULSI	Systems, Co., Ltd. of	- .	Japan	herein	referred to
"assignees" wh	ose mailing addresses are	6, Kanda Suru 2-1, Yaesu 2-cho	gadai 4-cl me. Chuo-ki	nome, Chiyoda u. Tokvo. Japan	-ku, Tokyo, Jand
	oncho 5-chome, Kodaira-sh			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	quiring the entire right, title				are
and the entire United States, United States I use and behoo said Patent ma	nsfer unto said assignee the right, title and interest in I/We hereby authorize and Patent to said assignee, of f; and for the use and behoay be granted, as fully and sale not been made.	and to any and all Pa request the Commissi i the entire right, title, oof of his legal represe	itents which oner of Pater and interest i intatives, to the	may be granted to not and Trademarks in and to the sam the full end of the t	therefor in the sto issue said e, for his sole term for which
Executed this_	27thd	ay ofJuly	r	, 2004	
at	Tokyo, Japan			·	
	Witness: Takashv Ozo	eare (Kirsya (Signature Witness:	kı Udu'yam) Hiroyuki U	CHIYAMA W
Note: Signatures of forms if more than o	all the inventors or assignees of r	record of the entire interest of ow*.	or their represen	tative(s) are required.	Submit multiple
* D Total of	forms are submit				

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

			P/126-221	
Whereas, I/We,Atsushi OGISH	HIMAof	Tokyo, Japa	ın ,her	eafter
referred to as applicant, have invented SEMICONDUCTOR MEMORY DEVI				
x for which an application for a Unit	ted States Patent was 626,095	7/24/20	03	
for which an application for a Unit	ed States Patent was	executed on Tokyo, Japan,		_, and
Whereas, Elpida Memory, Inc.		Tokyo, Japan	and	
Hitachi ULSI Systems, Co., Ltd.	ofTok	yo, Japan	herein refe	erred to
'assignees" whose mailing addresses a	6, Kanda Su are 2-1, Yaesu 2-	yo, Japan rugadai 4-chome chome, Chuo-ku, To	, Chiyoda-ku. kyo, Japan	Tokyo, and
22-1, Josuihoncho 5-chome, Kodaira	a-shi, Tokyo, Japan ,	respectively,		are
United States Patent to said assignee use and behoof; and for the use and bearid Patent may be granted, as fully assignment and sale not been made. Executed this 27th Tokyo, Japan	ehoof of his legal repr and entirely as the	esentatives, to the fu	ll end of the term been held by me	for which
ato, Japan			· · · · · · · · · · · · · · · · · · ·	·
		(Signature)	Ozishi me Atsushi OGISI	
Witness: Takashi C	zavo (F)	Witness:)mio	12
ote: Signatures of all the inventors or assignees	of record of the entire inter- below*.	est or their representative(s) are required. Subm	it multiple
☐ Total offorms are sul				